

WHAT IS CLAIMED IS:

1. A reciprocations device for a polishing roller of an emery-polishing machine, said device provided on a machine base of the machine body, a bearing base
5 respectively provided on opposite sides of said machine base, a polishing roller having a support shaft at two ends respectively connected with each said bearing base, said polishing roller driven by a motor fixed on said machine base for carrying out polishing process, said
10 reciprocating device comprising:

A connect device positioned on a proper location on said machine base and having a belt wheel provided with a shaft rotated by a spindle of said motor, said shaft possible to be moved laterally back and forth for a
15 present distance: and,

A reciprocating device positioned properly on the machine body and consisting of a rotating shaft, a swaying member fixed eccentrically on an upper surface of said rotating shaft so as to interacting with said shaft
20 of said connect device for reciprocating sidewise said polishing roller.

2. The reciprocating device for a polishing roller of an emery polishing machine as claimed in Claim 1, wherein said connect device further consists of a belt
25 wheel fixed on an inner wall by means of a bearing, said bearing pivotally fitting around an outer end of an bearing base, and an endless belt extending around said

belt wheel and the spindle of said motor.

3. The reciprocating device for a polishing roller of an emery-polishing machine as claimed in Claim 1, wherein said connect device further consists of a tubular
5 portion formed in an outer end portion, said tubular portion provided with a guide groove of a preset depth respectively in opposite sides of an outer end, a guide pin inserted in each said guiding groove and also into
10 said shaft firmly, a slide wheel fixed on each said guide pin, with said slide wheel having its periphery in a contacted condition with two sidewalls of said lateral guide groove of said connected device to limit lateral movement of said connect device.

4. The reciprocating device for a polishing roller
15 of an emery-polishing machine as claimed in Claim 1, wherein said reciprocating device consists of a gear box and a rotating shaft, said gear box having a U-shaped body, said U-shaped body having an inner chamber with an upper opening, said rotating shaft is positioned
20 upright in a center portion of said inner chamber, an eccentric post provided to extend up eccentrically on an upper surface of said rotating post, said swaying member having its outer end portion pivotally connected with said eccentric post, a worm gear fixed around a lower
25 portion of said rotating shaft and engaging a worm laterally provided in an upper portion of said inner chamber, a belt wheel fixed with an inner end portion of

said worm, and an endless belt provided to extend around said belt wheel and said motor for rotating said belt wheel for reciprocations of said polishing roller.

5 5. The reciprocating device for a polishing roller
of an emery polishing machine as claimed in Claim 1,
wherein said reciprocating device further includes a
shaft sleeve, said shaft sleeve having an outer end
pivotally connected with an inner end of said swaying
member by means of a bolt, and an inner end pivotally
10 connected with said left support shaft of said polishing
roller by means of a bearing.